**Speaker:** Ben Rybolt, University of Tennessee

**Title:** State of the art neutrino detection with the Double Chooz detectors and possible practical applications.

**Abstract:**
Double Chooz was designed to determine the theta_{13} mixing angle by measuring anti-neutrino disappearance from nearby nuclear reactors. Since January 2015 the construction of the near detector is complete. I will describe new background rejection techniques from the single detector phase. I will also discuss the possibility of using anti-neutrino detectors to locate hidden nuclear reactors, which, is of interest to the nuclear non-proliferation community.